

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

44 Human Secreted Proteins

the specification of which is filed on **August 5, 1999**, Application Serial No. **09/369,247**.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s):

Priority Claimed
Yes No

(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

	Filing Date	Appln No.
1.	09 FEB 1998	60/074,118
2.	09 FEB 1998	60/074,157
3.	09 FEB 1998	60/074,037
4.	09 FEB 1998	60/074,141
5.	09 FEB 1998	60/074,341

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US99/02293 04 FEB 1999 Pending
(Application Serial No.) (Filing Date) (Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith Kenley K. Hoover (Reg. No. 40,302), James H. Davis (Reg. No. 40,582), Joseph Kenny (Reg. No. 43,710), and Michele Wales (Reg. No. 43,975) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are

punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: David W. LaFleur
Inventor's signature: *David W. LaFleur* Date: 9/17/99
Residence: 3142 Quesada Street, N.W., Washington, DC 20015 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Steven M. Ruben
Inventor's signature: *Steven M. Ruben* Date: 9/19/99
Residence: 18528 Heritage Hills Drive, Olney, MD 20832 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Craig A. Rosen
Inventor's signature: *Craig A. Rosen* Date: 9/21/99
Residence: 22400 Rolling Hill Road, Laytonsville, MD 20882 Citizenship: US
Post Office Address: same as above

Full name of additional joint inventor: Paul A. Moore
Inventor's signature: *Paul A. Moore* Date: 9/20/99
Residence: 19005 Leatherback Drive, Germantown, MD 20874 Citizenship: UK
Post Office Address: same as above

Full name of additional joint inventor: Yanggu Shi
Inventor's signature: *Yanggu Shi* Date: 9/20/99
Residence: 437 West Side Drive, Apt. 102, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw
Inventor's signature: _____ Date: _____
Residence: 520 Sugarbush Circle, Frederick, MD 21793 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei
Inventor's signature: _____ Date: _____
Residence: 242 Gravatt Drive, Berkeley, CA 94705 Citizenship: CN
Post Office Address: same as above

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Full name of additional joint inventor: Yanggu Shi

Inventor's signature: _____ Date: _____
Residence: 437 West Side Drive, Apt. 102, Gaithersburg, MD 20878 Citizenship: CN
Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw

Inventor's signature: [Signature] Date: 9/22/95
Residence: 520 Sugarbush Circle, Frederick, MD 21793 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei

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Post Office Address: same as above

Full name of additional joint inventor: Hla Kyaw

Inventor's signature: _____ Date: _____
Residence: 520 Sugarbush Circle, Frederick, MD 21793 Citizenship: Burma
Post Office Address: same as above

Full name of additional joint inventor: Ying-Fei Wei

Inventor's signature: [Signature] Date: 9/28/99
Residence: 242 Gravatt Drive, Berkeley, CA 94705 Citizenship: CN
Post Office Address: same as above

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **David W. LaFleur, Steven M. Ruben, Craig A. Rosen, Paul A. Moore, Yanggu Shi, Hla Kyaw, and Ying-Fei Wei**, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

44 Human Secreted Proteins

for which application for United States Letters Patent was filed on **August 5, 1999**, and assigned **Serial No. 09/369,247**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

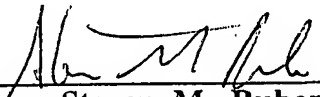
The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to Kenley K. Hoover (Reg. No. 40,302); James H. Davis (Reg. No. 40,582), Joseph J. Kenny (Reg. No. 43,710) and Michele M. Wales (Reg. No. 43,975) all of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:  Date: 9/12/99
David W. LaFleur

Inventor's Signature:  Date: 9/19/99
Steven M. Ruben


Craig A. Rosen

9/2/99

Paul A. Moore
Paul A. Moore

9/20/99


Yanggu Shi

9/30/99

Hla Kyaw

Date: _____

Ying-Fei Wei

Date: _____

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

Human Genome Sciences, Inc.
9410 Key West Avenue, Rockville, Maryland, 20850
Tel: 301-309-8504 Fax: 301-309-8439

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **David W. LaFleur, Steven M. Ruben, Craig A. Rosen, Paul A. Moore, Yanggu Shi, Hla Kyaw, and Ying-Fei Wei**, hereby sell(s), assign(s) and transfer(s) to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

44 Human Secreted Proteins

for which application for United States Letters Patent was filed on **August 5, 1999**, and assigned **Serial No. 09/369,247**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: _____ Date: _____
David W. LaFleur

Inventor's Signature: _____ Date: _____
Steven M. Ruben

Inventor's Signature: _____ Date: _____
Craig A. Rosen

Inventor's Signature: _____ Date: _____
Paul A. Moore

Inventor's Signature: _____ Date: _____
Yanggu Shi

Inventor's Signature: _____ Date: _____
[Signature]
Hla Kyaw **3/22/99**

Inventor's Signature: _____ Date: _____
Ying-Fei Wei

10062543 10062543 10062543 10062543 10062543

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Paul A. Moore

Inventor's Signature: _____ Date: _____
Yanggu Shi

Inventor's Signature: _____ Date: _____
Hla Kyaw

Inventor's Signature:  _____ Date: 9/28/99
Ying-Fei Wei

Human Genome Sciences, Inc.
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Tel: 301-309-8504 Fax: 301-309-8439

BOX ASSIGNMENTS
Case Docket No. PZ024P1

101189898

OFFICE OF
U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks.
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- David W. LaFleur Executed on Sep-14-99
- Steven M. Ruben Executed on Sep-19-99
- Craig A. Rosen Executed on Sep-21-99
- Paul A. Moore Executed on Sep-20-99
- Yanggu Shi Executed on Sep-20-99
- Hla Kyaw Executed on Sep-22-99
- Ying-Fei Wei Executed on Sep-28-99

Additional name(s) of conveying party(ies)
attached?

Yes ☐ No ☒

Nature of conveyance

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of
Name

3. ☐ Other

2. Name and address of receiving party(ies):

Name: Human Genome Sciences, Inc.
Street Address 9410 Key West Avenue
City Rockville, Maryland 20850

Additional name(s) attached?

Yes ☐ No ☒

4. Title 44 Human Secreted Proteins

5. Application number (s) or patent numbers (s)

A. Patent Application No. (s)
09/369,247 Filed: Aug-05-99

If this document is being filed together with a new
application, the execution date of the application is:

B. Patent No.
Additional numbers attached?
Yes ☐ No ☒

6. Name and address of party to whom correspondence concerning documents should be mailed:

Human Genome Sciences, Inc.
9410 Key West Avenue
Rockville, Maryland 20850
Telephone: 301-309-8504 Facsimile: 301-309-8439

7. Total of applications and patents involved 1

8. Total Fee (37 CFR 3.41) \$40.00

☐ Enclosed (By check in total of filing fee and Assignment Recordation Fee)
☒ Authorized to be charged to Deposit Account

9. Deposit Account No. 08-3425 (Attached duplicated copy of this page if paying by deposit
account)

10. If any additional fees due in connection with the recordation of this Assignment, please charge the
same to Deposit No. 08-3425

11. Statement and Signature

The best of my knowledge and belief, the foregoing information is true and correct and any attached
copy is a true copy of the original document.

Kenley K. Hoover

Name of Person Signing
Registration No. 40,302

Signature

October 28, 1999
Date

10/29/1999 CVORACHA 00000090 083425 09369247

02 FC:581

40.00 CH



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JANUARY 28, 2000

PTAS

HUMAN GENOME SCEINCES, INC.
KENLEY K. HOOVER
9410 KEY WEST AVENUE
ROCKVILLE, MD 20850



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PZ024 P1

**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/28/1999

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010342/0075 PAGE 2

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PATENT NUMBER:

FILING DATE: 08/05/1999
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OFFICE OF PUBLIC RECORDS